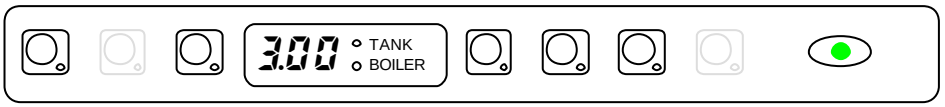
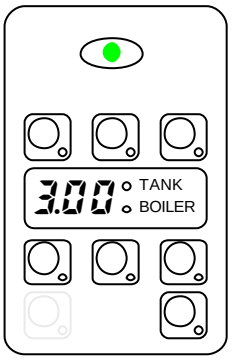
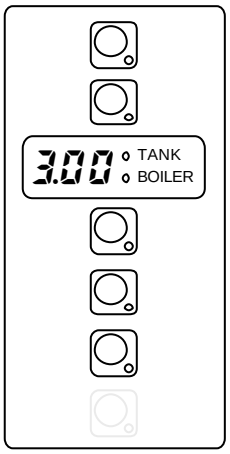
SERVICE MANUAL v.3.00







CONTENTS: This document contains the instruction to change parameter settings of electronic board by means of user interface.

EDITION: 09.2002

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1. KEYBOARDS

1.1. HOOD TYPE Style

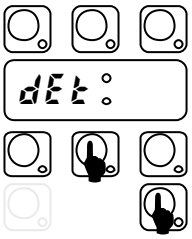

Fig. 1.1
Detergent dispenser
Manual Activation.

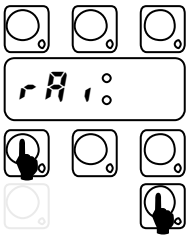

Fig. 1.2
Rinse Aid Dispenser
Manual Activation.

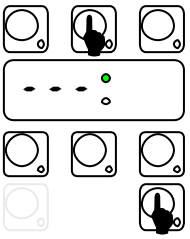

Fig. 1.3
Rinse Pump
Manual Activation
(used to EMPTY BOILER)

SETTING MODES:
To enter into one setting mode (Fig.1.4, Fig.1.5) the appliance should be in stand-by: switch on the appliance, no cycles selected. Is useful keep door open to avoid start cycle in case of not simultaneously pressure of the two keys.

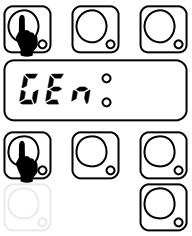

Fig. 1.4
Enter into General Parameters
(Hold down buttons for at least five seconds).

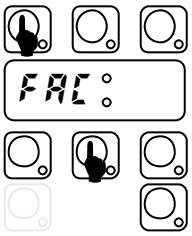

Fig. 1.5
Enter into Factory Parameters
(Hold down buttons for at least five seconds).

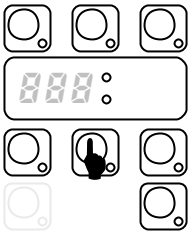

Fig. 1.6
Next Parameter Family OR
Increase Parameter Value
(In setting mode only)

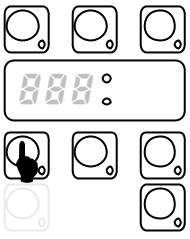

Fig. 1.7
Decrease Parameter Value
(In setting mode only)

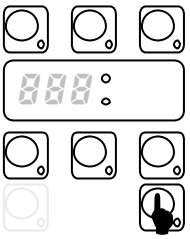

Fig. 1.8
Confirm Value and go
to next Parameter
(In setting mode only)

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1.2. UNDERCOUNTER Style

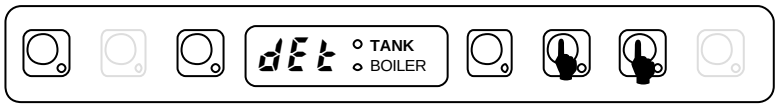

Fig.1.1
Detergent dispenser
Manual Activation

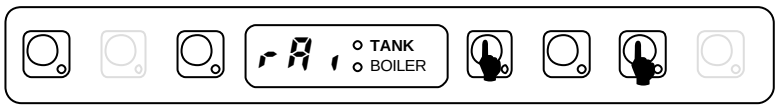

Fig.1.2
Rinse Aid Dispenser
Manual Activation

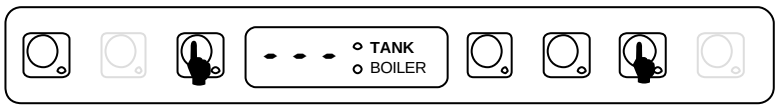

Fig.1.3
Rinse Pump
Manual Activation
(used to EMPTY BOILER)

SETTING MODES:
To enter into one setting mode (Fig.1.4, Fig.1.5) the appliance should be in stand-by: switch on the appliance, no cycles selected. Is useful keep door open to avoid start cycle in case of not simultaneously pressure of the two keys.

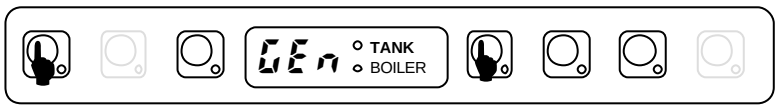

Fig. 1.4
Enter into General Parameters
(Hold down buttons for at least five seconds).

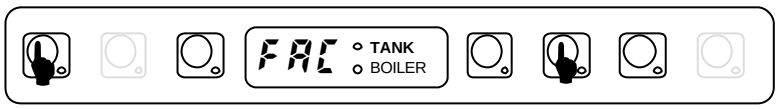

Fig. 1.5
Enter into Factory Parameters
(Hold down buttons for at least five seconds).

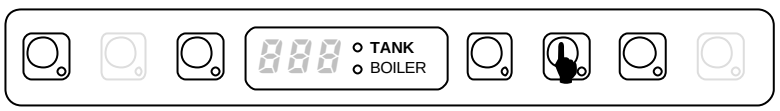

Fig.1.6
Next Parameter Family
OR
Increase Parameter Value
(in setting mode only)

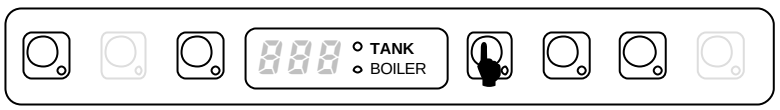

Fig.1.7
Decrease Parameter Value
(In setting mode only)

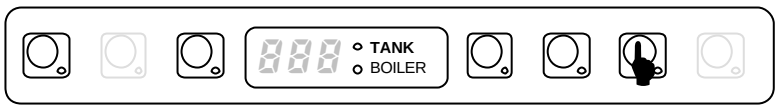

Fig.1.8
Confirm Value and go to next Parameter
(in setting mode only)

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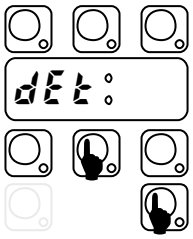
2. MANUAL ACTIVATION OF DETERGENT AND RINSE AID DISPENSERS

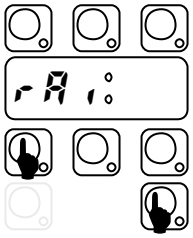
When replacing detergents may be necessary activate the dispensers to fill hoses. In the following paragraphs is explained how activate the dispensers via User Interface.

2.1. Detergent Dispenser Activation



Switch on the dishwasher.
Press and hold down CYCLE_2 and CYCLE INFINITE keys, after two 'beep' the detergent dispenser starts work for 20 sec.

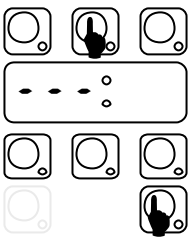
2.2. Rinse Aid Dispenser Activation



Switch on the dishwasher.
Press and hold down CYCLE_1 and CYCLE INFINITE keys, after two 'beep' the rinse aid dispenser starts work for 40 sec.

3. RINSE PUMP MANUAL ACTIVATION

Use this function to empty the boiler (if the dishwasher is not to be used for a long time, for maintenance operation: ex. before replacing main board).



Switch on the dishwasher.
Close the door and press and hold down DRAIN and CYCLE INFINITE keys. A buzzer signal indicates the rinse pump activation and the display shows three blinking lines. Three beeps indicate the cycle end.

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4. DETERGENT AND RINSE AID DOSAGE

In this paragraph is explained how to set the working time for the detergent and rinse aid dispensers.
For each dispenser there are two parameters: the initial time and the time during cycle execution.

GEn General Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
d In	Initial Detergent Dosage (during filling tank)	[s]	0	240	90
r In	Initial Rinse Aid Dosage (starts when tank filled)	[s]	0	180	10
dEt	Detergent Dosage During Cycle Execution (during wash phase)	[s]	0	182(*)	8
rA1	Rinse Aid Dosage During Cycle Execution (when refilling boiler)	[s]	0	62 (*)	4

How change the duration:

- Switch OFF and switch ON the dishwasher;
- Enter into the USER SETTING mode by pressing and hold down ON/OFF and CYCLE_1 keys for at least **five seconds** the display shows GEn (Fig.3.1);
- Press CYCLE_INFINITE. The display shows alternatively the symbol d In and the duration in seconds (Fig.3.2 and 3.3);
  NOTE: If User Interface v.3.00 tank led is on if value correspond to factory default (Default 1, HOOD TYPE).
- Use CYCLE_1 key to decrease the duration and CYCLE_2 key to increase (Fig.3.3);
- After settled the duration press CYCLE_INFINITE key to **store value**. The display shows the next parameter (Fig.3.4) and the corresponding value (Fig.3.5);
- In the same way is possible to change the other duration; when finished switch OFF and switch ON.

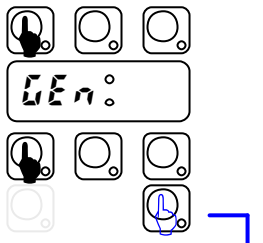

Fig. 3.1
Enter into User Mode
(press for 5 sec).

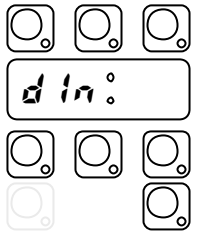

Fig. 3.2
Initial detergent dosage

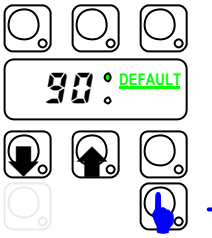

Fig. 3.3
Change duration.
(Tank LED indicates default).

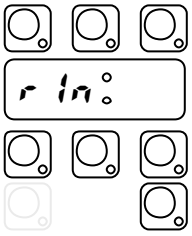

Fig. 3.4
Initial rinse aid dosage

Fig. 3.5
Change duration

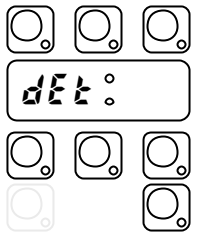

Fig. 3.6
Cycle detergent dosage

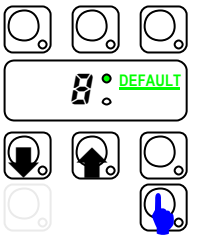

Fig. 3.7
Change time activation
(Tank LED indicates default)

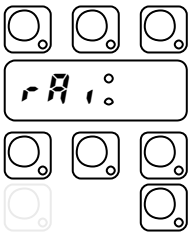

Fig. 3.8
Cycle rinse aid dosage

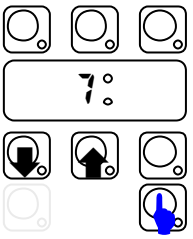

Fig. 3.9
Change time activation

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(*) Note for external dispensers:

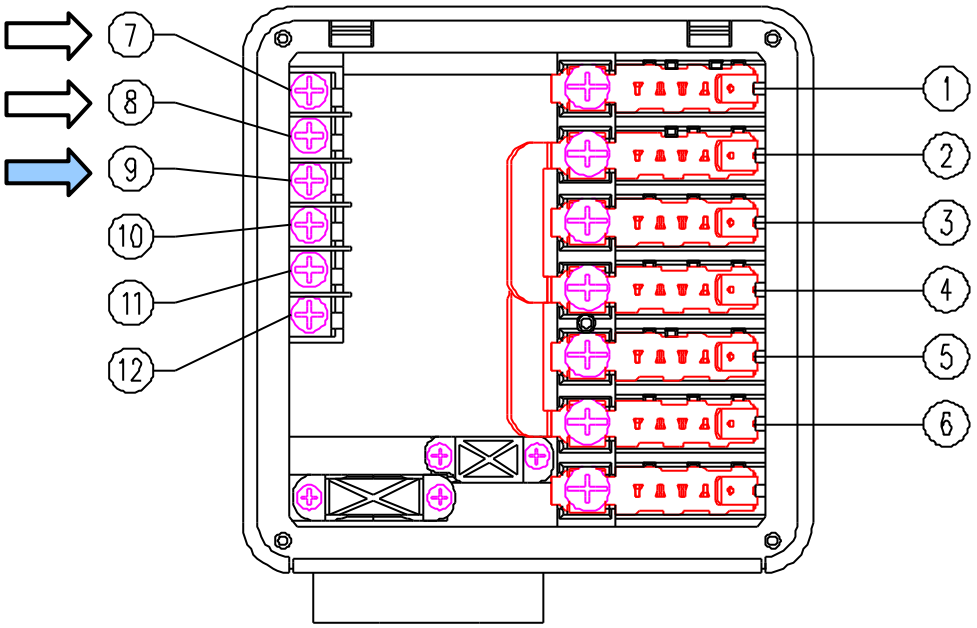
- If dEt: 181 the **detergent dispenser** works when **WASHING PUMP** is being activated; at the same time voltage is supplied between connectors **$L1_7$–$L1_9$** (main terminal box);

- If dEt: 182 the **detergent dispenser** works when **LOADING EV** is being activated to re-fill boiler level; at the same time voltage is supplied between connectors **$L1_7$–$L1_9$** (main terminal box);

- If rA: 61 the rinse aid dispenser works when **LOADING EV** is being activated to re-fill boiler level; at the same time voltage is supplied between connectors **$L1_8$–$L1_9$** (main terminal box);

- If rA: 62 the **rinse aid dispenser** works when **WASHING PUMP** is being activated; at the same time voltage is supplied between connectors **$L1_8$–$L1_9$** (main terminal box);

- For electrical connections refer to electric diagram -



Example

Suppose there is connected an **external detergent dispenser** with a probe into the tank. A typical setting could be:

dIn: 0 the dispenser is not activated during filling tank;

dIn: 181 the dispenser is supplied during washing phase and the probe automatically dose the right detergent amount.

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5. COUNTERS

This Parameter Family collects cycle counters and water consumption counters.
For water consumption counters a flow meter must be installed. See PPL (calibration parameter) into dPA section (§ Other Parameters).

Cnt Counters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
CYC	Cycles performed counter. CYC symbol and two numbers blink consecutively. The cycle number is obtained by joining the two numbers. Ex. CYC → 010 → 042 means 10042 cycles executed.	-			
cYc	Cycle counter (resettable). This counter is similar to CYC but is resettable by user (see rSt parameter below).	-			
mmc	Water Consumption. Counts m^3 of water consumption.	[m^3]			
L	Water Consumption. Counts litres of water consumption. The total consumption is given by adding mmc [m^3] and L [l] values.	[l]			
L rt	Water Consumption: resettable counter. Counts the litres of water and is resettable by user (see rSt parameter below).	[l]			
rSt	Reset resettable counters: cYc and L rt To reset put 1 this parameter, switch off and then on again: cYc and L rt will show zero. Note that cYc is used to count cycles for CAI1 message (see next parameter, nCY).	-			
nCY	Store thousand of cycles after that CAI1 message appears on display. Ex. If this parameter is settled to 20, CAI1 message appears when cYc reach 20.000 cycles.	-			
drn	Drain/Cleaning cycles performed. Similar to CYC but counts Cleaning Cycles.	-			

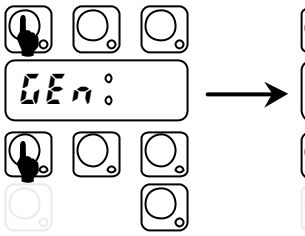

Fig.4.1
USER setting mode
(press for 5s)

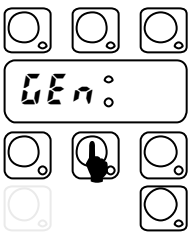

Fig.4.2
Next Family

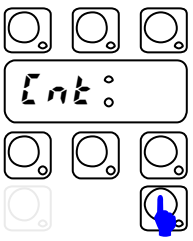

Fig. 4.3
Counters Fam.: **ENTER**

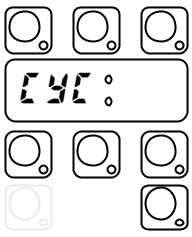

Fig. 4.4
CYCLES

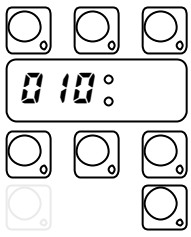

Fig. 4.5
Thousand.

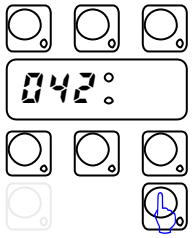

Fig. 4.6
Units.

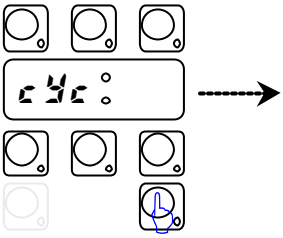

Fig. 4.7
Next counter.

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6. TEMPERATURE SETTING

In this paragraph is explained how to change temperature thresholds and all parameters related to boiler and tank.

FAC Factory Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
btT	Boiler Temperature: THRESHOLD. When boiler temperature reaches this value, heaters switch off.	[°C]	45	95	**76**
btH	Boiler Temperature HISTERESIS, (represent dead band). Heater switch on if tank temperature is below: btT - btH	[°C]	2	10	**2**
bH1	Boiler Temperature: HIGH LIMIT. When boiler temperature reaches this value E 2 alarm appears. Put 0 to disable E 2 alarm.	[°C]	0	98	**96**
bLo	Boiler Temperature: LOW LIMIT. During boiler warm-up, temperature must increase at least bLo °C otherwise E 3 warning appears. Put 0 to disable E 3 warning.	[°C]	0	10	**1**
bFL	Boiler Filling Timeout. If filling time is longer than bFL, A 1 alarm appears. Put 0 to disable A 1 alarm.	[min]	0	42	**5**
bAJ	Boiler Temperature Adjust.	[°C]	0	7	**4**
bP	Boiler Priority (enable boiler wait function) 0=disabled 1=enabled	-	0	1	**1**
bSt	Booster Function Overheat gap over Boiler Temperature Threshold	[°C]	0	15	**4**
btd	Boiler temperature negative differential: when the dishwasher is in standby, boiler threshold becomes: btT - btd (Used to save energy during machine inactivity by keeping boiler water at a lower temperature).	[°C]	0	20	**0**
ttT	Tub Temperature: THRESHOLD When tank temperature reaches this value, heater switch off.	[°C]	40	85	**63**
ttH	Tub Temperature: HISTERESIS, (represent dead band). Heater switch on if tank temperature is below: ttT - ttH	[°C]	2	30	**5**
tH1	Tank Temperature: HIGH LIMIT. When tank temperature reaches this value E 3 alarm appears. Put 0 to disable E 3 alarm.	[°C]	0	95	**75**
tLo	Tank Temperature: LOW LIMIT. During tank warm-up, temperature must increase at least bLo °C otherwise E 2 warning appears. Put 0 to disable E 2 warning.	[°C]	0	10	**1**
tFL	Tank Filling Timeout. If filling time is longer than tFL, A 1 alarm appears. Put 0 to disable A 1 alarm.	[min]	0	42	**20**

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To modify thresholds do the following:

- Switch OFF and switch ON the dishwasher;
- Enter into the FACTORY SETTING mode by pressing and hold down ON/OFF and CYCLE_2 keys for at least five seconds (Fig.4.1);
- Press CYCLE INFINITE. The display shows alternatively the symbol bEC (Fig.5.2) and the corresponding value 76 (Fig.5.3);
- Use CYCLE_1 key to decrease the value and CYCLE_2 key to increase (Fig.4.3);
- Press CYCLE INFITE key to confirm. The display shows the next parameter (Fig.4.4) and the corresponding value (Fig.4.5);
- In the same way is possible to change the other parameters; when finished switch OFF and switch ON.

Fig. 5.1
Factory setting mode

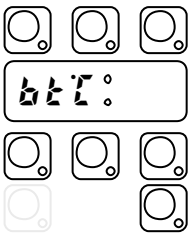


Fig. 5.2
Boiler temp. threshold

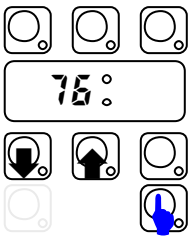


Fig. 5.3
Change value & Store

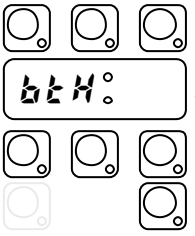


Fig. 5.4
Boiler Temp Hysteresis

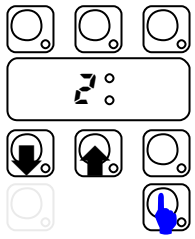


Fig. 5.5
Change value & Store

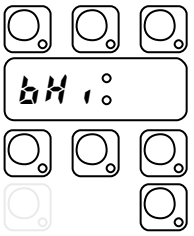
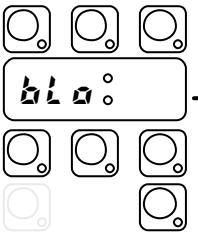


Fig. 5.6
Tank temp. High limit.

Fig. 5.7
Change value & Store



dEt

At the end the display will show again 'FAC' and by pressing CYCLE_2 key (Fig.4.9) is possible to change cycle duration (see next paragraph).

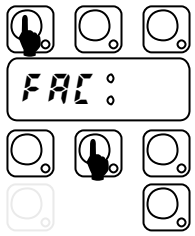


Fig. 5.9
Factory setting mode

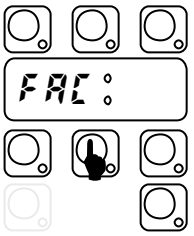


Fig. 5.10
Next Family

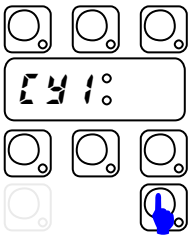


Fig. 5.11
Cycle 1 Family: **ENTER**

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7. CYCLE SETTING

In this paragraph is explained how to change cycle phases duration (see Tab.1 next page).

- Switch on the dishwasher;
- Enter into the FACTORY SETTING mode: press and hold down ON/OFF and CYCLE_2 keys for at least **5 seconds** (Fig.5.1);
- Press CYCLE_2 key to select cycle 1 parameters.
- Press CYCLE INFINITE. The display shows alternatively the symbol (Fig.5.2) and the corresponding value (Fig.5.3);
- Use CYCLE_1 key to increase the value and CYCLE_2 key to decrease (Fig.5.3);
- Press CYCLE INFITE key to confirm. The display shows the next parameter (Fig.5.4) and the corresponding value (Fig.5.5);
- In the same way is possible to change the other parameters;

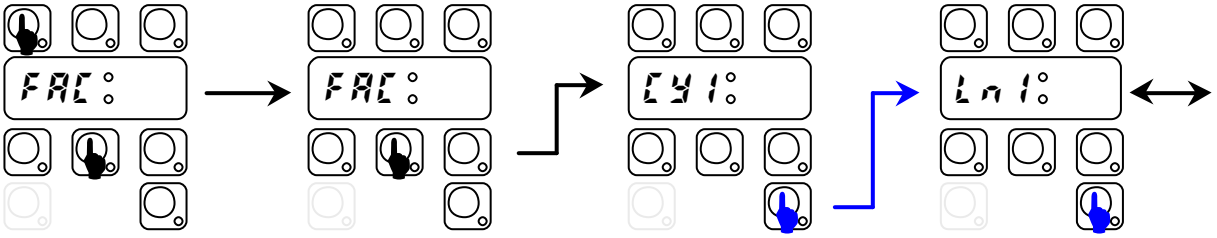

Fig. 6.1 Factory setting mode.
Fig. 6.2 Select next class.
Fig. 6.3 Cycle 1 Family: **ENTER**
Fig. 6.4 Wash duration [min].

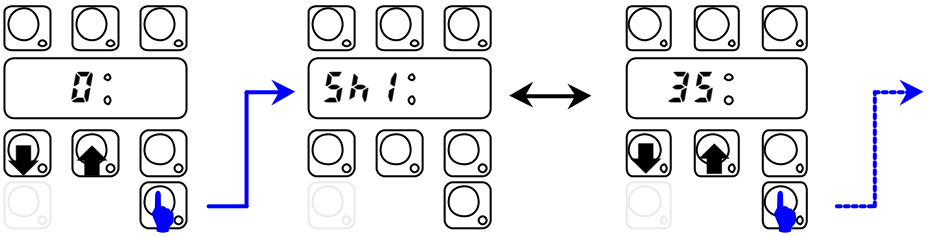

Fig. 6.5 Change value & Store.
Fig. 6.6 Wash duration [sec].
Fig. 6.7 Change value & Store.

After settled all parameters referring Cycle 1, by pressing CYCLE_2 key is possible to change the Cycle 2 parameters (Fig.5.8, 5.9) and so on.

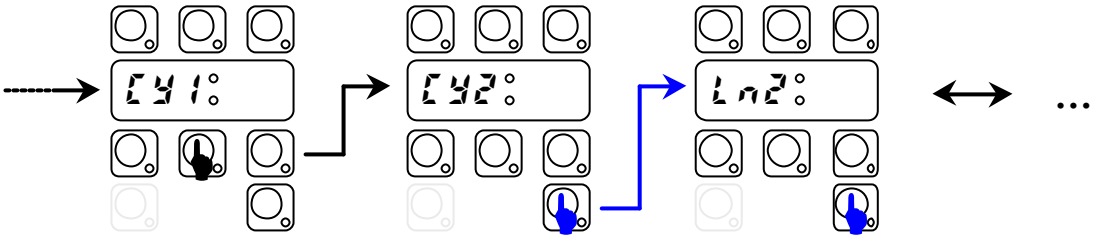

Fig. 6.8 Cycle 1 Parameters.
Fig. 6.9 Cycle 2 Parameters: **ENTER**
Fig. 6.10 Wash duration [min].

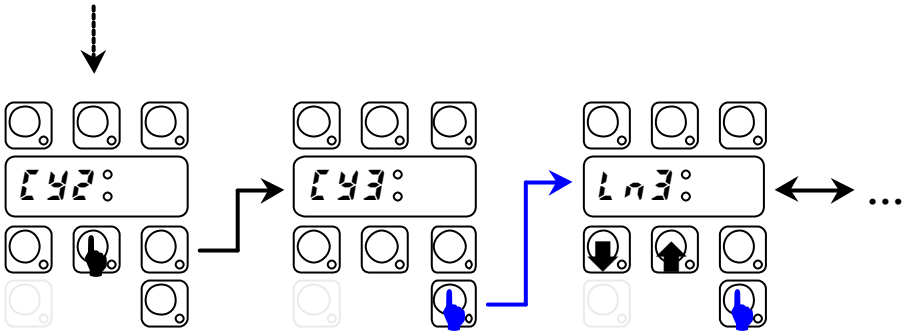

Fig. 6.11 Cycle 2 Parameters: next Family
Fig. 6.12 Cycle 3 Parameters: **ENTER**
Fig. 6.13 Wash duration [min].

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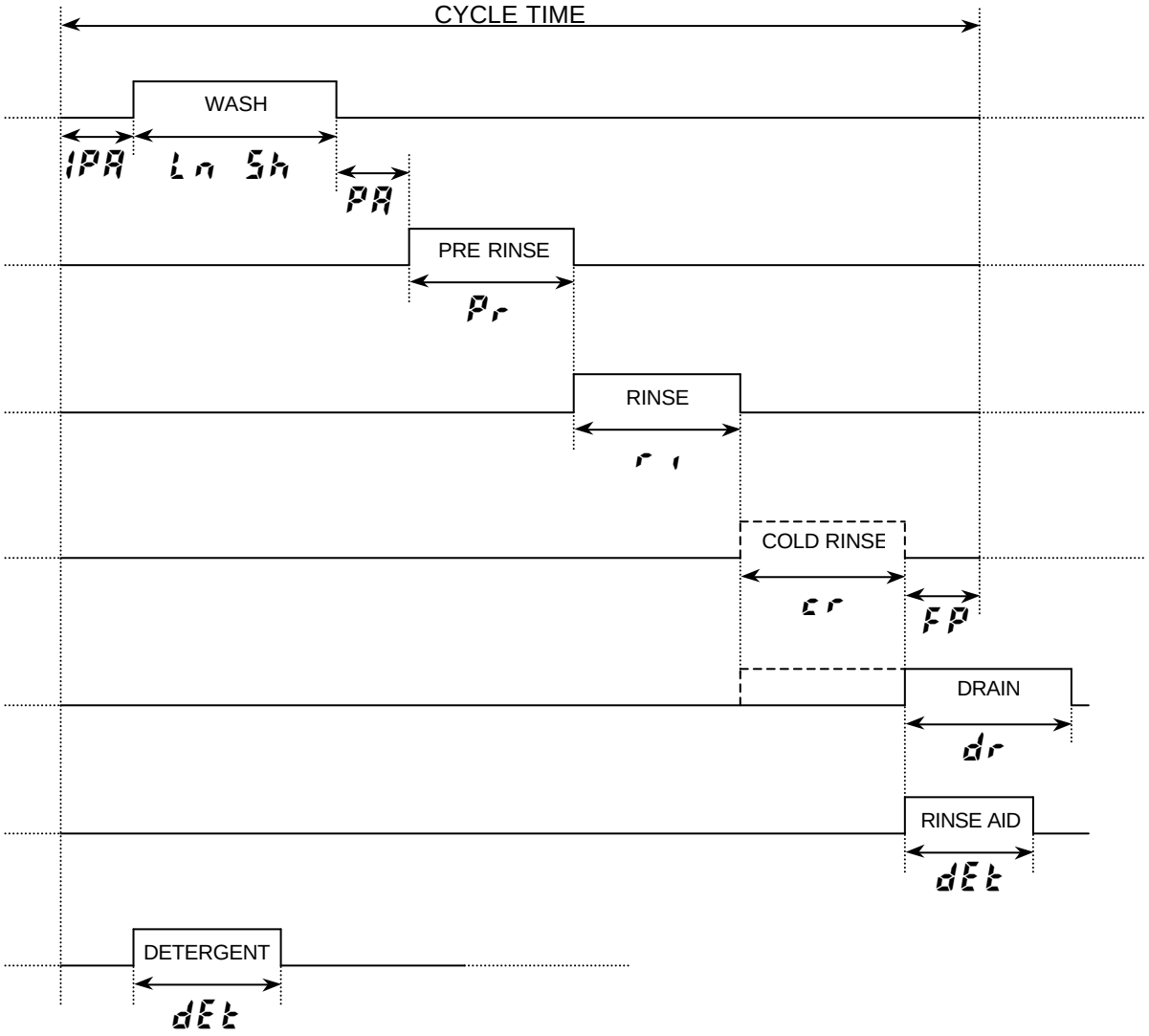
CYCLE DIAGRAM



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C y 1 Cycle 1 Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
L n 1	Wash Phase Long	[min]	0	20	**0**
S h 1	Wash Phase Short	[s]	1	60	**35**
P A 1	Pause	[s]	0	20	**4**
P r 1	Pre-rinse Duration	[s]	0	30	**0**
r i 1	Rinse Phase Duration	[s]	10	45	**16**
c r 1	Cold Rinse Phase Duration	[s]	0	50	**0**
d r 1	Drain	[s]	0	40	**16**
F P 1	Final Pause at End of Cycle	[s]	0	10	**0**

C y 2 Cycle 2 Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
L n 2	Wash Phase Long	[min]	0	20	**0**
S h 2	Wash Phase Short	[s]	1	60	**45**
P A 2	Pause	[s]	0	20	**4**
P r 2	Pre-rinse Duration	[s]	0	30	**0**
r i 2	Rinse Phase Duration	[s]	10	45	**16**
c r 2	Cold Rinse Phase Duration	[s]	0	50	**0**
d r 2	Drain	[s]	0	40	**16**
F P 2	Final Pause at End of Cycle	[s]	0	10	**0**

C y 3 Cycle 3 Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
L n 3	Wash Phase Long	[min]	0	20	**1**
S h 3	Wash Phase Short	[s]	1	60	**40**
P A 3	Pause	[s]	0	20	**4**
P r 3	Pre-rinse Duration	[s]	0	30	**0**
r i 3	Rinse Phase Duration	[s]	10	45	**16**
c r 3	Cold Rinse Phase Duration	[s]	0	50	**0**
d r 3	Drain	[s]	0	40	**16**
F P 3	Final Pause at End of Cycle	[s]	0	10	**0**
b t 3	Boiler Temperature Threshold: only for Cycle 3. This parameter allows having a different rinsing temperature for the third cycle. Only values above 45°C are allowed.	[°C]	0	95	**0**

d r n Drain/Cleaning Cycle Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
I d r	Initial Drain Phase Duration	[s]	0	240	**40**
F d r	Final Drain Phase Duration	[s]	0	240	**60**

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8. OTHER PARAMETERS

dPA Dishwashing Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
IPA	Initial Pause before start washing (for ALL cycles)	[s]	0	10	**0**
dLY	Delay for the 2nd wash pump (PW only)	[s]	0	10	**3**
Pdr	Active a drain phase at the end of washing phase.	[s]	0	40	**0**
C F	Celsius/Fahrenheit selection 0 = Celsius 1 = Fahrenheit	-	0	1	**0**
r tt	Rinse Temperature Display. Enable rinse temperature probe (if installed). 0 = during rinse phase the display shows boiler temperature; 1 = during rinse phase the display shows rinse temperature;	-	0	1	**0**
PPL	Pulse Per Litre. This parameter must be settled in according to flow meter installed.	[p/l]	0	255	**0**
1LE	Pressure sensor threshold 1 (present in previous releases).	-	0	255	**140**
1HS	Pressure sensor histeresis 1 (present in previous releases).	-	0	255	**50**
2LE	Pressure sensor threshold 2 (present in previous releases).	-	0	255	**140**
2HS	Pressure sensor histeresis 2 (present in previous releases).	-	0	255	**50**

Note: 1LE, 1HS, 2LE, 2HS parameters emulates a two levels pressure switch, keep in mind that value doesn't correspond to a physical quantity.

ron Read Only Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
rEL	Main Board Firmware Release	-	-	-	-
CAI1	When CAI1 message appears, the parameter value becomes 1. After maintenance, to clear CAI1 message, insert 0.	-	-	-	-
C 8	When C 8 alarm appears, the machine is frozen and this parameter is 1. After maintenance (see alarm codes document), insert 0 to enable the machine.	-	-	-	-

HCP HACCP Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
SEr	Serial Device 0 = 8N1 1 = PC connection (DAAS 8E1) 7 = HACCP network (ECAP 8E1+LK485) (LK485 board is necessary) 16 = HACCP printer (8N1) 32 = MODEM GSM (DAAS 8N1) 33 = MODEM GSM (DAAS 8E1) 48 = Hyper Terminal (8N1)	-	0	63	**1**
Adr	Address. This parameter specifies the address of the appliance into the 'HACCP_network'. Works only if 'HACCP network' is selected (see above parameter).	-	0	255	**1**
Prn	Print parameter table.	-	0	1	**1**
bt	HACCP 'Basic' (printer) Boiler temperature: high limit.	[°C]	45	95	**90**
bH	HACCP 'Basic' (printer) Boiler temperature: gap below high limit.	[°C]	0	20	**10**
tt	HACCP 'Basic' (printer) Tank temperature: high limit.	[°C]	35	75	**68**

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tH	HACCP 'Basic' (printer) Tank temperature: gap below high limit.	[°C]	0	20	**10**

CFG Configuration Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
typ	Dishwasher Model: 0 = HOOD TYPE & UNDERCOUNTER 1 = POT WASHER 2 = AUTOMATIC POT WASHER	-	0	2	**0**
boi	Boiler type: 0 = ATMOSPHERIC BOILER 1 = PRESSURE BOILER 2 = EXTERNAL BOILER	-	0	2	**0**
doo	Door type: 0 = AUTOMATIC HOOD 1 = MANUAL HOOD 2 = FRONT LOADING	-	0	2	**1**
dFL	Default model (see *Default tables*): 1 = HOOD TYPE 2 = POT WASHER 3 = UNDERCOUNTER	-	0	3	**-**
trc	Solid State Relay (TRIAC). 0 = not enabled; 1 = **SOFT START** enabled; (works only on boards with Solid State Relay).	-	0	1	**0**
b_t	Boiler/Tank heating swap: 0 = boiler heaters and tank heater can work simultaneously; 1 = swap enabled: tank heating starts only boiler temperature is reached; (Note: disabling this function changes the global electrical power of appliance; before enabling this function check available power, supply cable section, fuses in according to User Manual).	-	0	1	**1**
btF	Tank Filling Mode Enable filling tank by means of rinsing cycles. Ex: btF = 75 means that boiler water is heated at 75°C, then follows a rinse phase and so on until tank is full. If btF = 0 the tank is filled by solenoid valve in the traditional way.	[°C]	0	85	**75**
LES	Detergent Level Switches 0 = level switches not enabled; 1 = enable detergent level switches;	-	0	1	**0**
UI	USER INTERFACE MODEL 1 = hood type, under counter,… 5 = LS5 with atmospheric boiler; 7 = LS5 with pressure boiler (user interface without display);	-	0	7	**1**
ALr	ALARMS ENABLE 0 = alarms disabled (to disable also warnings see bLo and tLo); 1 = alarms enabled; If this function is disabled, faults can be detected so display do not shows any alarm code.	-	0	1	**1**

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9. MAIN BOARD CONFIGURATION

When receiving an electronic board (spare part) may be necessary to configure it in according to the machine where has to be replaced.

1. With the machine **CODE** enter into the following table and read the corresponding **Prog**. number;
2. Follow the instructions reported into the corresponding **Prog.XXX** sheet (next pages).

9.1. CODE→Prog. TABLE

MODEL	CODE	Prog.
LS 10	**504100**	**002**
LS 10 UK DP	**504102**	**002**
LS 10/60Hz	**504105**	**002**
LS 10 CW	**504107**	**002**
LS 10 INS	**504108**	**002**
LS 10 N	**504111**	**002**
LS 10 DP	**504114**	**002**
LS 10 HD	**504115**	**008**
LS 10 UK1	**504118**	**002**
LS 10 UK3	**504119**	**002**
LS10EA	**504142**	**002**
HT 1000	**698051**	**002**
HT 1000 INS	**698052**	**002**
HT 1000 DP	**698054**	**002**
LS10 INS DP	**S36220**	**002**
LS 10 INS	**S37858**	**002**
LS 10	**S39968**	**002**
LS 10/fiera	**S42549**	**002**
LS 10 INS	**S43062**	**002**
LS 10	**S43327**	**002**
HT 1000	**S475CH**	**002**
LS 10 CW	**S47APN**	**002**
LS 10 CW	**S47CF5**	**002**
LS 10 CW	**S47DU4**	**002**
LS 10 CW	**S47DU7**	**002**
LS 10 CW	**S47DUA**	**002**
LS 10 CW	**S47DUF**	**002**
LS 10 CW	**S47E17**	**002**
LS 10 CW	**S47E2C**	**002**
LS 10 CW	**S47E2H**	**002**
LS 10 CW	**S47E2M**	**002**
LS 10 CW	**S47E2R**	**002**
LS 10 UK1	**S47E50**	**002**
LS 10 CW	**S47E6M**	**002**
LS14EA	**504101**	**001**
ECOTEMP 12	**504104**	**003**
HT 1200 ins DEK	**504109**	**001**
LS14EA/INS	**504110**	**001**
LS14EA/AU	**504116**	**004**
LS14EA/60	**504117**	**001**

MODEL	CODE	Prog.
LS 12 INS	**504120**	**001**
LS 12	**504121**	**001**
LS 12 DP	**504122**	**001**
LS 12 60Hz	**504125**	**001**
LS 12 CW	**504128**	**001**
HT 1200 DEK	**504129**	**001**
LS14EA/ASIA	**504131**	**009**
LS14EA/G	**504133**	**001**
WT 60 DP	**504134**	**001**
WT 60	**504135**	**001**
WT 60 CW	**504136**	**001**
WT 60 UK DP CW INS	**504137**	**001**
WT 60 INS	**504138**	**001**
WT 60 CW INS	**504139**	**001**
WT 60 AU CW	**504140**	**004**
WT 60 AU N	**504141**	**004**
WT 60/60HZ	**504145**	**001**
WT 60/60HZ CW	**504146**	**001**
WT 60 N	**504151**	**001**
WT 60 N INS	**504152**	**001**
LS 12 HD	**504153**	**007**
LS14EA/DD	**504155**	**001**
WT65E	**504156**	**001**
WT65EB	**504157**	**001**
WT65EI	**504158**	**001**
WT 60 AU DP	**504159**	**004**
LS 12 UK/3 CW	**504161**	**001**
WT 60 UK CW	**504162**	**001**
LS 12 AU	**504163**	**004**
LS 12 UK DP CW	**504164**	**001**
ECOTEMP 12 SW	**504165**	**001**
WT65EBI	**504166**	**001**
WT65EBIA	**504167**	**004**
WT65EIA	**504168**	**004**
WT65E60	**504169**	**001**
WT65EB60	**504170**	**001**
WT 60 U/400	**504171**	**006**
WT 60 U/440	**504172**	**006**
WT65EBIDG	**504173**	**001**
WT65EBASIA	**504174**	**009**

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MODEL	CODE	Prog.
WT65EIM50	**504175**	**006**
WT65EIM60	**504176**	**006**
WT 60 MX 220/60	**504177**	**001**
LS 12 CW INS	**504178**	**001**
LS 12 ASIACW	**504190**	**009**
WT 60 ASIACW	**504191**	**009**
LS 12 ASIANB	**504192**	**009**
WT60ASIANB	**504193**	**009**
HT 1200	**698050**	**001**
HT 1200 INS	**698053**	**001**
HT 1200 DP	**698055**	**001**
ECOTEMP 12 UK	**698056**	**001**
LS 12 CW	**D04713**	**001**
LS 12 CW	**S34369**	**180bst00**
WT 60 giappone	**S34377**	**001**
WT 60 giappone	**S34378**	**001**
WT 60 giappone	**S35178**	**001**
WT 60 giappone	**S35179**	**001**
LS 12 CW	**S35246**	**001**
HT1200	**S35330**	**001**
WT 60 giappone	**S36384**	**001**
WT 60 giappone	**S36385**	**001**
LS 12 CW	**S36846**	**001**
LS 12 CW	**S36847**	**001**
HT1200	**S39964**	**001**
HT1200	**S40472**	**001**
ECOTEMP 12	**S40785**	**003**
WT 60/9 INS	**S41170**	**001**
HT1200	**S41185**	**001**
LS 12 INS	**S42032**	**001**
WT 60/60HZ	**S42170**	**001**
LS 12/fiera	**S42550**	**001**
WT 60/60HZ	**S42617**	**001**
WT 60 N	**S43119**	**001**
LS12 CW	**S43488**	**001**
LS 12 INS	**S43563**	**001**
LS 12 DP CW	**S43734**	**001**
LS 12 CW	**S43806**	**001**
LS 12 CW	**S43830**	**001**
WT 60 CW INS	**S44421**	**001**

MODEL	CODE	Prog.
HT1200	**S46002**	**001**
WT 60 CW INS	**S46880**	**001**
HT 1000	**S4734M**	**002**
WT 60/9	**S47539**	**001**
WT 60/9	**S4756O**	**001**
WT 60/9	**S4756P**	**001**
WT60 INS	**S475GJ**	**001**
WT60 INS	**S475GY**	**001**
WT 60 CW	**S476HA**	**001**
LS 12 HD	**S4775E**	**007**
HT1200	**S4777U**	**001**
LS 12 CW INS	**S477BM**	**001**
WT 60 AU CW	**S477JR**	**004**
WT 60 INS	**S477M1**	**001**
WT 60 INS	**S477M1**	**001**
WT 60 N INS HACCP	**S477MB**	**001**
WT 60/60HZ DP	**S477QB**	**001**
LS 12 CW INS	**S477V7**	**001**
WT 60 DP	**S47811**	**001**
WT 60/9	**S4781D**	**001**
WT 60/60HZ DP	**S4781I**	**001**
WT 60/9 INS	**S4786P**	**001**
WT 60 U/230	**S478KF**	**006**
LS 12 CW INS	**S478LV**	**001**
WT 60 CW INS	**S478SP**	**001**
LS 12 CW INS	**S479VE**	**001**
WT 60	**S479Z3**	**001**
WT 60	**S479Z9**	**001**
WT 60 AU CW	**S47AP80**	**004**
LS 12 CW	**S47APP**	**001**
HT 1200	**S47B9I**	**001**
LS 12 UK/3 CW	**S47BJI**	**001**
LS 12 CW	**S47C1Z**	**001**
WT 60 CW	**S47C6B**	**001**
LS 12 CW	**S47CCS**	**001**
WT 60	**S47CCY**	**001**
WT 60 CW	**S47CEA**	**001**
WT 60/9	**S47CEH**	**001**
WT 60/9	**S47CEI**	**001**
WT 60	**S47CKD**	**001**

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MODEL	CODE	Prog.
WT 60 CW INS	**S47CPB**	**001**
WT 60 CW INS	**S47CQS**	**001**
ECOTEMP 12 SW	**S47CVG**	**001**
ECOTEMP 12 SW	**S47CVH**	**001**
WT 60 CW INS	**S47D9Y**	**001**
WT 60	**S47DCA**	**001**
LS 12 CW	**S47DE0**	**001**
LS 12 CW	**S47DMM**	**001**
WT 60	**S47DSK**	**001**
WT 60	**S47DWC**	**001**
WT 60	**S47DWD**	**001**
WT4	**400007**	**021**
WT4B	**400008**	**020**
WT4D	**400009**	**021**
WT4DB	**400015**	**020**
WT46	**400016**	**020**
WT4G	**400017**	**022**
WT4DG	**400018**	**022**
LS5/1	**400100**	**021**
LS5/1 DP	**400102**	**021**
LS5/3	**400112**	**020**
LS5/3 DP	**400113**	**020**
LB5G	**400118**	**022**
LB5GDP	**400119**	**022**
FL5	**690004**	**020**
FL5DP	**690005**	**020**
LS6EP	**502003**	**013**
LS6EP/DD	**502004**	**013**
LS6EA/DD	**502005**	**011**
LS6EA/DD/DP	**502006**	**011**
LS6EA/UK	**502030**	**011**
LS6EA/UKDP	**502031**	**011**
LS6EA/60	**502041**	**011**
WT 38DD	**502110**	**011**
WT 37	**502111**	**011**
WT 38	**502112**	**011**
WT 37/4.5	**502117**	**011**
WT 38/UK	**502217**	**011**
WT 38/4.5	**502118**	**011**
WT 37/UK	**502122**	**011**

MODEL	CODE	Prog.
WT 37/J60	**502218**	**011**
WT 37/J50	**502219**	**011**
WT 38/60	**502321**	**011**
WT 38/M60	**502322**	**015**
WT 37MED	**502323**	**014**
LS6EA	**502520**	**011**
LS6EA/DP	**502521**	**011**
FL 620EP	**698003**	**013**
FL 620EA	**698070**	**011**
FL 620EADP	**698071**	**011**
Ecotemp 5	**698076**	**016**
Ecotemp 5 S	**698077**	**016**
FL 620EP/DD	**698078**	**013**
FL 620EA/DD	**698079**	**011**
FL 620EADP/DD	**698080**	**011**
LS6EA	**S477BL**	**011**
WT 37	**S4784U**	**011**
LS6EA	**S4787B**	**011**
FL 620EA	**S478BN**	**011**
LS9P	**505022**	**019**
LS9P DD	**505033**	**019**
LS9A UK	**505034**	**018**
LS9P60	**505035**	**019**
HT900P	**698022**	**019**
PPW1 M	**506010**	**005**
PPW1 M UK	**506011**	**005**
PPW1 60 Hz	**506012**	**005**
PPW1 MH	**506013**	**005**
WT830 M	**506018**	**005**
WT830 M UK	**506019**	**005**
WT830 60 Hz	**506020**	**005**
WT830 MH	**506026**	**005**
PW100 M	**698040**	**005**
PW100 MH	**698043**	**005**
WT830 MH	**S46881**	**005**
PPW1 M	**S4758V**	**005**
WT830 MH	**S476YZ**	**005**
PPW1 MH	**S477IT**	**005**
WT830 M	**S479QS**	**005**
PPW1 M UK	**S47BKQ**	**005**

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MODEL	CODE	Prog.
PPW1 MH	**S47C37**	**005**
PPW1 MH	**S47DE1**	**005**
PPW2 M	**506014**	**005**
PPW2 M UK	**506015**	**005**
PPW2 60 Hz	**506016**	**005**
PPW2 V	**506017**	**005**
WT850 M	**506022**	**005**
WT850 M UK	**506023**	**005**
WT850 60 Hz	**506024**	**005**
WT850 V	**506025**	**005**
PW200 M	**698041**	**005**
PW200 V	**698042**	**005**
WT850 M	**S43016**	**005**
PPW2 M	**S44099**	**005**
PPW2 M	**S44399**	**005**
PPW2 M	**S45958**	**005**
PPW2 M	**S47BW4**	**005**
WT850 M	**S47CFG**	**005**
PPW2 M	**S47CZ1**	**005**

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9.2. PROGRAMMING SHEETS

LS12 – LS14 / WT60 - 65			Prog. 001
1.	Switch OFF and then switch ON the machine.		
2.	CFG	Enter into CFG parameter family and set the following parameters.	
	tYP	0	Hood Type like working cycles.
	bo1	0	Atmospheric boiler.
	doo	1	Manual Hood.
	dFL	1	Default values for Hood Type models.
	trc	0	(for this appliance SOFT START is NOT possible).
	b_t	1	Tank heater works only if boiler temperature reached.
	btF	75	Enable filling tank by means of rinsing cycles.
	LES	0	Detergent level switches not enabled.
	UI	1	Select user interface hood type model.
	ALr	1	Alarms enabled.
3.	Switch OFF and then switch ON the machine.		
4.	Modify Factory parameters:		
	FAC	Factory parameters family	
	btC	78	Boiler Temperature Threshold.
5.	Switch OFF and then switch ON the machine.		

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LS10			Prog. 002
1.	Switch OFF and then switch ON the machine.		
2.	CFG	Enter into CFG parameter family and set the following parameters:	
	tYP	0	Hood Type like working cycles.
	bo1	0	Atmospheric boiler.
	doo	1	Manual Hood.
	dFL	1	Default values for Hood Type models.
	trc	0	(for this appliance SOFT START is NOT possible).
	b_t	1	Tank heater works only if boiler temperature reached.
	btF	75	Enable filling tank by means of rinsing cycles.
	LES	0	Detergent level switches not enabled.
	U1	1	Select user interface hood type model.
	ALr	1	Alarms enabled.
3.	Switch OFF and then switch ON the machine.		
4.	Modify Factory parameters:		
	FAC	Factory parameters family	
	btC	78	Boiler Temperature Threshold.
5.	Modify Cycle parameters:		
	CY1	Cycle 1	
	Sh1	45	Short Wash Phase [s]
	CY2	Cycle 2	
	Ln2	1	Long Wash Phase [min]
	Sh2	40	Short Wash Phase [s]
6.	Switch OFF and then switch ON the machine.		

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ECOTEMP12				Prog. 003
1.	Switch OFF and then switch ON the machine.			
2.	CFG	Enter into CFG parameter family and set the following parameters:		
		tYP	0	Hood Type like working cycles.
		bo1	0	Atmospheric boiler.
		doo	1	Manual Hood.
		dFL	1	Default values for Hood Type models.
		trc	0	(for this appliance SOFT START is NOT possible).
		b_t	0	Boiler heaters and tank heater can work simultaneously. .
		btF	0	The tank is filled into the traditional way.
		LES	0	Detergent level switches not enabled.
		U1	1	Select user interface hood type model.
		ALr	1	Alarms enabled.
3.	Switch OFF and then switch ON the machine.			
4.	Modify Factory parameters:			
	FAC	Factory parameters family		
		btC	65	Boiler Temperature Threshold.
		bAJ	2	Boiler Temperature Adjust.
5.	Switch OFF and then switch ON the machine.			

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LS12 AU / WT60 - 65 AU	Prog. 004

1.	Switch OFF and then switch ON the machine.			
2.	CFG	Enter into CFG parameter family and set the following parameters:		
		tYP	0	Hood Type like working cycles.
		bo1	0	Atmospheric boiler.
		doo	0	Automatic Hood.
		dFL	1	Default values for Hood Type models.
		trc	0	(for this appliance SOFT START is NOT possible).
		b_t	1	Tank heater works only if boiler temperature reached.
		btF	75	Enable filling tank by means of rinsing cycles.
		LES	0	Detergent level switches not enabled.
		U1	1	Select user interface hood type model.
		ALr	1	Alarms enabled.
3.	Switch OFF and then switch ON the machine.			
4.	Modify Factory parameters:			
	FAC	Factory parameters family		
		btC	78	Boiler Temperature Threshold.
5.	Modify the other parameters:			
	CY1	Cycle 1		
		FP1	2	Final Pause [s]
	CY2	Cycle 2		
		FP2	2	Final Pause [s]
	CY3	Cycle 3		
		FP3	2	Final Pause [s]
	dPA	Dishwashing parameters family.		
		IPA	2	Initial Pause
6.	Switch OFF and then switch ON the machine.			

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PW 1 - 2 / WT830 - 850			Prog. 005
1.	Switch OFF and then switch ON the machine.		
2.	CFG	Enter into CFG parameter family and set the following parameters:	
	typ	1	Pot Washer.
	boi	0	Atmospheric boiler.
	doo	2	Front loading function.
	dFL	2	Default values for Pot Washer models.
	trc	0	(for this appliance SOFT START is NOT possible).
	b_t	1	Tank heater works only if boiler temperature reached.
	btF	75	Enable filling tank by means of rinsing cycles.
	LES	0	Detergent level switches not enabled.
	UI	1	Select user interface hood type model.
	ALr	1	Alarms enabled.
3.	Switch OFF and then switch ON the machine.		
4.	Modify Factory parameters:		
	FAC	Factory parameters family	
		btC 78	Boiler Temperature Threshold.

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WT60 - 65 USPH	Prog. 006

1.	Switch OFF and then switch ON the machine.			
2.	CFG	Enter into CFG parameter family and set the following parameters:		
		tYP	0	Hood Type like working cycles.
		bo1	0	Atmospheric boiler.
		doo	1	Manual Hood.
		dFL	1	Default values for Hood Type models.
		trc	0	(for this appliance SOFT START is NOT possible).
		b_t	1	Tank heater works only if boiler temperature reached.
		btF	75	Enable filling tank by means of rinsing cycles.
		LES	0	Detergent level switches not enabled.
		U1	1	Select user interface hood type model.
		ALr	1	Alarms enabled.
3.	Switch OFF and then switch ON the machine.			
4.	Modify Factory parameters:			
	FAC	Factory parameters family		
		btC	78	Boiler Temperature Threshold.
5.	Modify the cycle parameters:			
	CY1	Enter into Cycle 1 parameters family.		
		r.1	25	Rinse Phase Duration [s]
		dr1	25	Drain [s]
	CY2	Enter into Cycle 2 parameters family.		
		r.2	25	Rinse Phase Duration [s]
		dr2	25	Drain [s]
	CY3	Enter into Cycle 3 parameters family.		
		r.3	25	Rinse Phase Duration [s]
		dr3	25	Drain [s]
6.	Select Fahrenheit :			
	dPA	Enter into Dishwashing parameter family.		
		C F	1	Select Fahrenheit degrees.
6.	Switch OFF and then switch ON the machine.			

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LS12HD	Prog. 007

1.	Switch OFF and then switch ON the machine.			
2.	CFG	Enter into CFG parameter family and set the following parameters:		
		tYP	0	Hood Type like working cycles.
		bo1	0	Atmospheric boiler.
		doo	1	Manual Hood.
		dFL	1	Default values for Hood Type models.
		trc	0	(for this appliance SOFT START is NOT possible).
		b_t	1	Tank heater works only if boiler temperature reached.
		btF	75	Enable filling tank by means of rinsing cycles.
		LES	0	Detergent level switches not enabled.
		UI	1	Select user interface hood type model.
		ALr	1	Alarms enabled.
3.	Switch OFF and then switch ON the machine.			
4.	Modify the cycle parameters:			
	C y 1	Enter into Cycle 1 parameters family.		
		Pr 1	20	Pre-rinse Duration [s]
		dr 1	36	Drain [s]
	C y2	Enter into Cycle 2 parameters family.		
		Pr2	20	Pre-rinse Duration [s]
		dr2	36	Drain [s]
	C y3	Enter into Cycle 3 parameters family.		
		Pr3	20	Pre-rinse Duration [s]
		dr3	36	Drain [s]
5.	Switch OFF and then switch ON the machine.			

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LS10HD	Prog. 008

1.	Switch OFF and then switch ON the machine.			
2.	CFG	Enter into CFG parameter family and set the following parameters:		
		tYP	0	Hood Type like working cycles.
		bo1	0	Atmospheric boiler.
		doo	1	Manual Hood.
		dFL	1	Default values for Hood Type models.
		trc	0	(for this appliance SOFT START is NOT possible).
		b_t	1	Tank heater works only if boiler temperature reached.
		btF	75	Enable filling tank by means of rinsing cycles.
		LES	0	Detergent level switches not enabled.
		UI	1	Select user interface hood type model.
		ALr	1	Alarms enabled.
3.	Switch OFF and then switch ON the machine.			
4.	Modify the cycle parameters:			
	CY1	Enter into Cycle 1 parameters family.		
		Sh1	45	Short Wash Phase [s]
		Pr1	20	Pre-rinse Duration [s]
		dr1	36	Drain [s]
	CY2	Enter into Cycle 2 parameters family.		
		Ln1	1	Long Wash Phase [min]
		Sh2	40	Short Wash Phase [s]
		Pr2	20	Pre-rinse Duration [s]
		dr2	36	Drain [s]
5.	Switch OFF and then switch ON the machine.			

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LS12 - 14 / WT60 - 65 ASIA				Prog. 009
1.	Switch OFF and then switch ON the machine.			
2.	CFG	Enter into CFG parameter family and set the following parameters.		
		tYP	0	Hood Type like working cycles.
		bo1	0	Atmospheric boiler.
		doo	1	Manual Hood.
		dFL	1	Default values for Hood Type models.
		trc	0	(for this appliance SOFT START is NOT possible).
		b_t	1	Tank heater works only if boiler temperature reached.
		btF	75	Enable filling tank by means of rinsing cycles.
		LES	0	Detergent level switches not enabled.
		UI	1	Select user interface hood type model.
		ALr	1	Alarms enabled.
3.	Switch OFF and then switch ON the machine.			
4.	Modify Factory parameters:			
	FAC	Factory parameters family		
		btC	78	Boiler Temperature Threshold.
		bP	0	Boiler Priority Disabled
5.	Switch OFF and then switch ON the machine.			

free	Prog. 010

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LS6 / WT30 6000W ATM	Prog. 011

1.	Switch OFF and then switch ON the machine.		
2.	CFG	Enter into CFG parameter family and set the following parameters.	
	typ	0	Hood Type like working cycles.
	boi	0	Atmospheric boiler.
	doo	2	Front loading.
	dFL	3	Default values for Undercounter models.
	trc	1	SOFT START ENABLED.
	b_t	1	Tank heater works only if boiler temperature reached.
	btF	75	Enable filling tank by means of rinsing cycles.
	LES	0	Detergent level switches not enabled.
	UI	1	Select user interface hood type model.
	ALr	1	Alarms enabled.
3.	Switch OFF and then switch ON the machine.		

free	Prog. 012

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LS6 PRESS				Prog. 013
1.	Switch OFF and then switch ON the machine.			
2.	CFG	Enter into CFG parameter family and set the following parameters.		
		tYP	0	Hood Type like working cycles.
		bo1	1	Pressure boiler.
		doo	2	Front loading.
		dFL	3	Default values for Undercounter models.
		trc	1	SOFT START ENABLED.
		b_t	1	Tank heater works only if boiler temperature reached.
		btF	75	Enable filling tank by means of rinsing cycles.
		LES	0	Detergent level switches not enabled.
		U1	1	Select user interface hood type model.
		ALr	1	Alarms enabled.
3.	Switch OFF and then switch ON the machine.			
4.	Modify Factory parameters:			
	FAC	Enter into FAC parameter family and change boiler threshold.		
		btC	86	Boiler Temperature Threshold.
5.	Switch OFF and then switch ON the machine.			

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WT30 MED	Prog. 014

1.	Switch OFF and then switch ON the machine.		
2.	CFG	Enter into CFG parameter family and set the following parameters.	
	typ	0	Hood Type like working cycles.
	boi	0	Atmospheric boiler.
	doo	2	Front loading.
	dFL	3	Default values for Undercounter models.
	trc	1	SOFT START ENABLED.
	b_t	1	Tank heater works only if boiler temperature reached.
	btF	75	Enable filling tank by means of rinsing cycles.
	LES	0	Detergent level switches not enabled.
	UI	1	Select user interface hood type model.
	ALr	1	Alarms enabled.
3.	Switch OFF and then switch ON the machine.		
4.	Modify Factory parameters:		
	FAC	Enter into FAC parameter family and change boiler threshold.	
	btC	95	Boiler Temperature Threshold.
	bHi	0	Disable boiler high Temperature alarm (C 2).
	bSt	0	Booster function not needed.
	btd	10	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	ttC	65	Tub Temperature Threshold.
	tHi	80	Tank high Temperature limit.
5.	Modify the cycle parameters:		
	CY1	Cycle 1 parameters family.	
	Ln1	4	Long Wash Phase [min]
	Sh1	10	Short Wash Phase [s]
	ri1	35	Rinse Phase Duration [s]
	dr1	40	Drain [s]
	FP1	15	Final Pause at End of Cycle
	CY2	Cycle 2 parameters family.	
	Ln2	6	Long Wash Phase [min]
	Sh2	10	Short Wash Phase [s]
	ri2	35	Rinse Phase Duration [s]
	dr2	40	Drain [s]
	FP2	15	Final Pause at End of Cycle
	CY3	Cycle 3 parameters family.	
	Ln3	9	Long Wash Phase [min]
	Sh3	10	Short Wash Phase [s]
	ri3	35	Rinse Phase Duration [s]
	dr3	40	Drain [s]
	FP3	15	Final Pause at End of Cycle
6.	Switch OFF and then switch ON the machine.		

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WT30 USPH				Prog. 015
1.	Switch OFF and then switch ON the machine.			
2.	CFG	Enter into CFG parameter family and set the following parameters.		
	typ	0	Hood Type like working cycles.	
	bo1	0	Atmospheric boiler.	
	doo	2	Front loading.	
	dFL	3	Default values for Undercounter models.	
	trc	0	(for this appliance SOFT START is NOT possible).	
	b_t	1	Tank heater works only if boiler temperature reached.	
	btF	75	Enable filling tank by means of rinsing cycles.	
	LES	0	Detergent level switches not enabled.	
	UI	1	Select user interface hood type model.	
	ALr	1	Alarms enabled.	
3.	Switch OFF and then switch ON the machine.			
4.	Modify Factory parameters:			
	FAC	Enter into FAC parameter family and change boiler threshold.		
	btC	82	Boiler Temperature Threshold.	
	btd	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.	
	bSt	0	Booster Function not necessary.	
	ttC	66	Tank Temperature Threshold.	
	tH1	80	High limit for tank temperature.	
5.	Modify the cycle parameters:			
	CY1	Cycle 1 parameters family.		
	Ln1	1	Long Wash Phase [min]	
	Sh1	22	Short Wash Phase [s]	
	r.1	25	Rinse Phase Duration [s]	
	dr1	40	Drain [s]	
	FP1	4	Final Pause [s]	
	CY2	Cycle 2 parameters family.		
	Ln2	2	Long Wash Phase [min]	
	Sh2	22	Short Wash Phase [s]	
	r.2	25	Rinse Phase Duration [s]	
	dr2	40	Drain [s]	
	FP2	4	Final Pause [s]	
	CY3	Cycle 3 parameters family.		
	Ln3	4	Long Wash Phase [min]	
	Sh3	22	Short Wash Phase [s]	
	r.3	25	Rinse Phase Duration [s]	
	dr3	40	Drain [s]	
	FP3	4	Final Pause [s]	

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WT30 USPH				Prog. 015
	dr n	Drain parameters family.		
		1dr	30	Initial Drain Phase Duration [s]
	dPA	Set other parameters.		
		1PA	5	Initial Pause [s]
		C F	1	Fahrenheit.
6.	Switch OFF and then switch ON the machine.			

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ECOTEMP 5			Prog. 016
1.	Switch OFF and then switch ON the machine.		
2.	CFG	Enter into CFG parameter family and set the following parameters.	
	typ	0	Hood Type like working cycles.
	bo1	0	Atmospheric boiler.
	doo	2	Front loading.
	dFL	3	Default values for Undercounter models.
	trc	1	SOFT START ENABLED.
	b_t	0	Tank and boiler heaters works can work simultaneously.
	btF	75	Enable filling tank by means of rinsing cycles.
	LES	0	Detergent level switches not enabled.
	UI	1	Select user interface hood type model.
	ALr	1	Alarms enabled.
3.	Switch OFF and then switch ON the machine.		
4.	Modify Factory parameters:		
	FAC	Enter into FAC parameter family and change boiler threshold.	
	btC	77	Boiler Temperature Threshold.
	btd	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.
5.	Modify the cycle parameters:		
	CY1	Cycle 1 parameters family.	
	Ln1	1	Long Wash Phase [min]
	Sh1	10	Short Wash Phase [s]
	r.1	25	Rinse Phase Duration [s]
	dr1	40	Drain [s]
	FP1	4	Final Pause [s]
	CY2	Cycle 2 parameters family.	
	Ln2	2	Long Wash Phase [min]
	Sh2	22	Short Wash Phase [s]
	r.2	25	Rinse Phase Duration [s]
	dr2	40	Drain [s]
	FP2	4	Final Pause [s]
	CY3	Cycle 3 parameters family.	
	Ln3	4	Long Wash Phase [min]
	Sh3	22	Short Wash Phase [s]
	r.3	25	Rinse Phase Duration [s]
	dr3	40	Drain [s]
	FP3	4	Final Pause [s]
	drn	Drain parameters family.	
	Idr	30	Initial Drain Phase Duration [s]
	dPA	Set other parameters.	
	IPA	5	Initial Pause [s]
6.	Switch OFF and then switch ON the machine.		

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PW AUTO (to be defined)	Prog. 017

1.	Switch OFF and then switch ON the machine.		
2.	CFG	Enter into CFG parameter family and set the following parameters.	
	typ	2	Automatic Pot Washer.
	bo1	0	Atmospheric boiler.
	doo	0	Automatic Hood.
	dFL	2	Default values for Hood Type models.
	trc	0	(for this appliance SOFT START is NOT possible).
	b_t	1	Tank heater works only if boiler temperature reached.
	btF	75	Enable filling tank by means of rinsing cycles.
	LES	0	Detergent level switches not enabled.
	UI	1	Select user interface hood type model.
	ALr	1	Alarms enabled.
3.	Switch OFF and then switch ON the machine.		

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LS9 / WT 55 ATM	Prog. 018

1.	Switch OFF and then switch ON the machine.			
2.	CFG	Enter into CFG parameter family and set the following parameters.		
		tYP	0	Hood Type like working cycles.
		bo1	0	Atmospheric boiler.
		doo	1	Manual Hood.
		dFL	1	Default values for Hood Type models.
		trc	1	SOFT START ENABLED.
		b_t	1	Tank heater works only if boiler temperature reached.
		btF	75	Enable filling tank by means of rinsing cycles.
		LES	0	Detergent level switches not enabled.
		U1	1	Select user interface hood type model.
		ALr	1	Alarms enabled.
3.	Switch OFF and then switch ON the machine.			
4.	Modify Factory parameters:			
	FAC	Enter into FAC parameter family and change boiler threshold.		
		btC	82	Boiler Temperature Threshold.
		bAJ	0	
		bSt	1	
5.	Modify the cycle parameters:			
	C y2	Cycle 2 parameters family.		
		Sh2	55	Short Wash Phase [s]
	C y3	Cycle 3 parameters family.		
		Ln3	4	Long Wash Phase [min]
	dPA	Set other parameters.		
		IPA	5	Initial Pause [s]
6.	Switch OFF and then switch ON the machine.			

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LS9 / WT55 PRESS	Prog. 019

1.	Switch OFF and then switch ON the machine.			
2.	CFG	Enter into CFG parameter family and set the following parameters.		
		typ	0	Hood Type like working cycles.
		bo1	1	Pressure boiler.
		doo	1	Manual Hood.
		dFL	1	Default values for Hood Type models.
		trc	0	(for this appliance SOFT START is NOT possible).
		b_t	1	Tank heater works only if boiler temperature reached.
		btF	75	Enable filling tank by means of rinsing cycles.
		LES	0	Detergent level switches not enabled.
		U1	1	Select user interface hood type model.
		ALr	1	Alarms enabled.
3.	Switch OFF and then switch ON the machine.			
4.	Modify Factory parameters:			
	FAC	Enter into FAC parameter family and change boiler threshold.		
		btC	84	Boiler Temperature Threshold.
		bAJ	0	
		bSt	1	Booster Function.
5.	Modify the cycle parameters:			
	C y2	Cycle 2 parameters family.		
		Sh2	55	Short Wash Phase [s]
	C y3	Cycle 3 parameters family.		
		Ln3	4	Long Wash Phase [min]
	drn	Drain parameters family.		
		Idr	30	Initial Drain Phase Duration [s]
6.	Switch OFF and then switch ON the machine.			

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LS5 / WT 4 PRES	Prog. 020

1.	Switch OFF and then switch ON the machine.			
2.	CFG	Enter into CFG parameter family and set the following parameters.		
		typ	0	Hood Type like working cycles.
		boi	1	Pressure boiler.
		doo	2	Front loading door type.
		dFL	3	Default values for Undercounter models.
		trc	1	SOFT START ENABLED.
		b_t	1	Tank heater works only if boiler temperature reached.
		btF	0	The tank is filled into the traditional way.
		LES	0	Detergent level switches not enabled.
		UI	7	Select user interface without display.
		ALr	0	ALARMS NOT ENABLED.
3.	Switch OFF and then switch ON the machine.			
4.	Modify Factory parameters:			
	FAC	Enter into FAC parameter family.		
		btC	84	Boiler Temperature Threshold.
		bAJ	3	
		bSt	2	Booster Function.
5.	Modify the cycle parameters:			
	C93	Cycle 3 parameters family.		
		Ln3	1	Long Wash Phase [min]
		Sh3	40	Short Wash Phase [s]
6.	Switch OFF and then switch ON the machine.			
7.	Modify Detergent dosage:			
	GEn	Enter into GEn parameter family.		
		din	165	Initial Detergent Dosage.
		rin	0	Initial Rinse Aid Dosage.
		dEt	182	Detergent dispenser works when LOAD SOLENOID VALVE in activated.
		rAi	61	Rinse Aid dispenser works when LOAD SOLENOID VALVE in activated.
8.	Switch OFF and then switch ON the machine.			

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LS5 / WT 4 PRES MONO	Prog. 021

1.	Switch OFF and then switch ON the machine.		
2.	CFG	Enter into CFG parameter family and set the following parameters.	
	typ	0	Hood Type like working cycles.
	boi	1	Pressure boiler.
	doo	2	Front loading door type.
	dFL	3	Default values for Undercounter models.
	trc	0	(for this appliance SOFT START is NOT possible).
	b_t	1	Tank heater works only if boiler temperature reached.
	btF	0	The tank is filled into the traditional way.
	LES	0	Detergent level switches not enabled.
	UI	7	Select user interface without display.
	ALr	0	ALARMS NOT ENABLED.
3.	Switch OFF and then switch ON the machine.		
4.	Modify Factory parameters:		
	FAC	Enter into FAC parameter family.	
	btC	82	Boiler Temperature Threshold.
	bAJ	3	
	bSt	2	Booster Function.
5.	Modify the cycle parameters:		
	C93	Cycle 3 parameters family.	
	Ln3	1	Long Wash Phase [min]
	Sh3	40	Short Wash Phase [s]
6.	Switch OFF and then switch ON the machine.		
7.	Modify Detergent dosage:		
	GEn	Enter into GEn parameter family.	
	din	165	Initial Detergent Dosage.
	rin	0	Initial Rinse Aid Dosage.
	dEt	182	Detergent dispenser works when LOAD SOLENOID VALVE in activated.
	rAi	61	Rinse Aid dispenser works when LOAD SOLENOID VALVE in activated.
8.	Switch OFF and then switch ON the machine.		

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LB5G	Prog. 022

1.	Switch OFF and then switch ON the machine.		
2.	CFG	Enter into CFG parameter family and set the following parameters.	
	typ	0	Hood Type like working cycles.
	boi	0	Atmospheric boiler.
	doo	2	Front loading door type.
	dFL	3	Default values for Undercounter models.
	trc	1	SOFT START ENABLED.
	b_t	1	Tank heater works only if boiler temperature reached.
	btF	0	The tank is filled into the traditional way.
	LES	0	Detergent level switches not enabled.
	UI	5	Select user interface for LS5.
	ALr	1	ALARMS ENABLED.
3.	Switch OFF and then switch ON the machine.		
4.	Modify Factory parameters:		
	FAC	Enter into FAC parameter family.	
	btC	85	Boiler Temperature Threshold.
	bAU	0	
	bSt	2	Booster Function.
5.	Modify the cycle parameters:		
	C33	Cycle 3 parameters family.	
	Ln3	1	Long Wash Phase [min]
	Sh3	40	Short Wash Phase [s]
6.	Switch OFF and then switch ON the machine.		

ECOTEMP5 EAG	Prog. 023

1.	Switch OFF and then switch ON the machine.		
2.	CFG	Enter into CFG parameter family and set the following parameters.	
	typ	0	Hood Type like working cycles.
	boi	0	Atmospheric boiler.
	doo	2	Front loading door type.
	dFL	3	Default values for Undercounter models.
	trc	1	SOFT START ENABLED.
	b_t	1	Tank heater works only if boiler temperature reached.
	btF	75	Enable filling tank by means of rinsing cycles.
	LES	0	Detergent level switches not enabled.
	UI	1	Select user interface hood type model.
	ALr	1	ALARMS ENABLED.
3.	Switch OFF and then switch ON the machine.		

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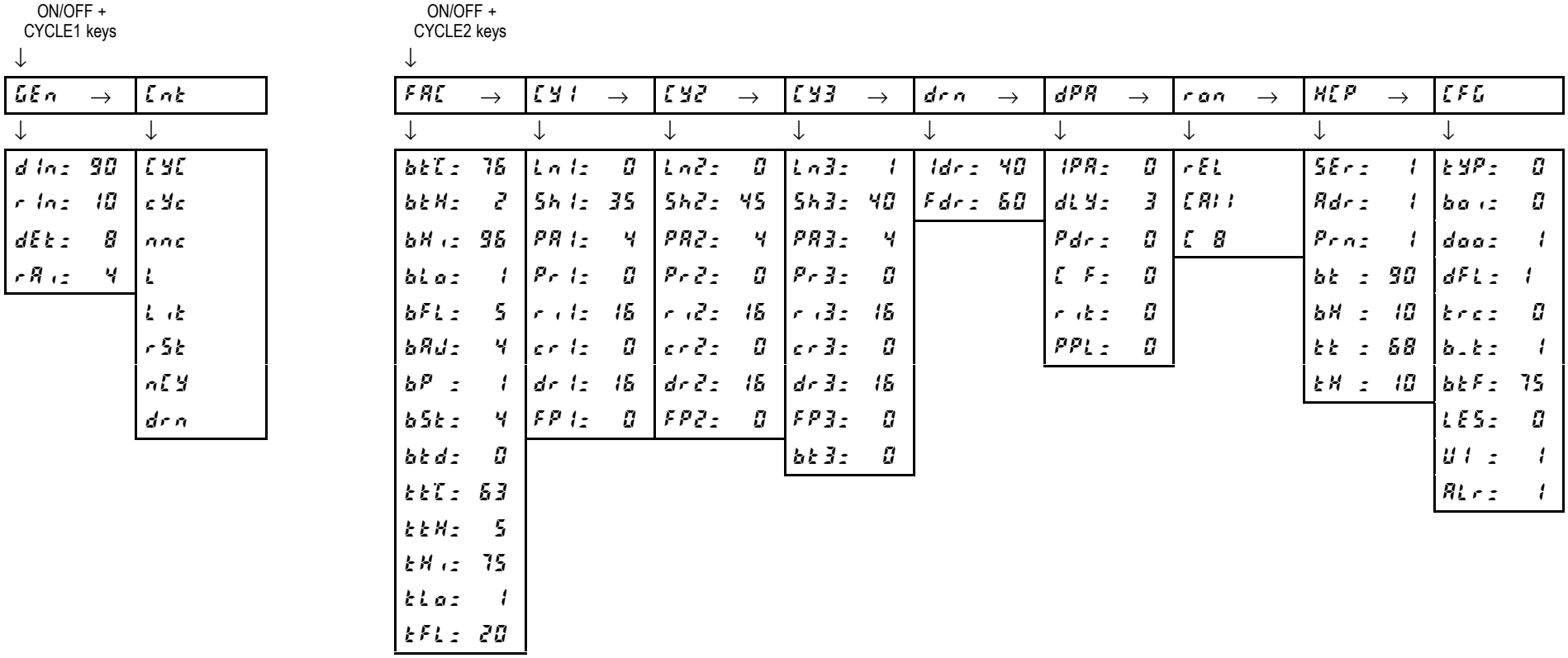
10.DEFAULT VALUES

Default 1 – Hood Type



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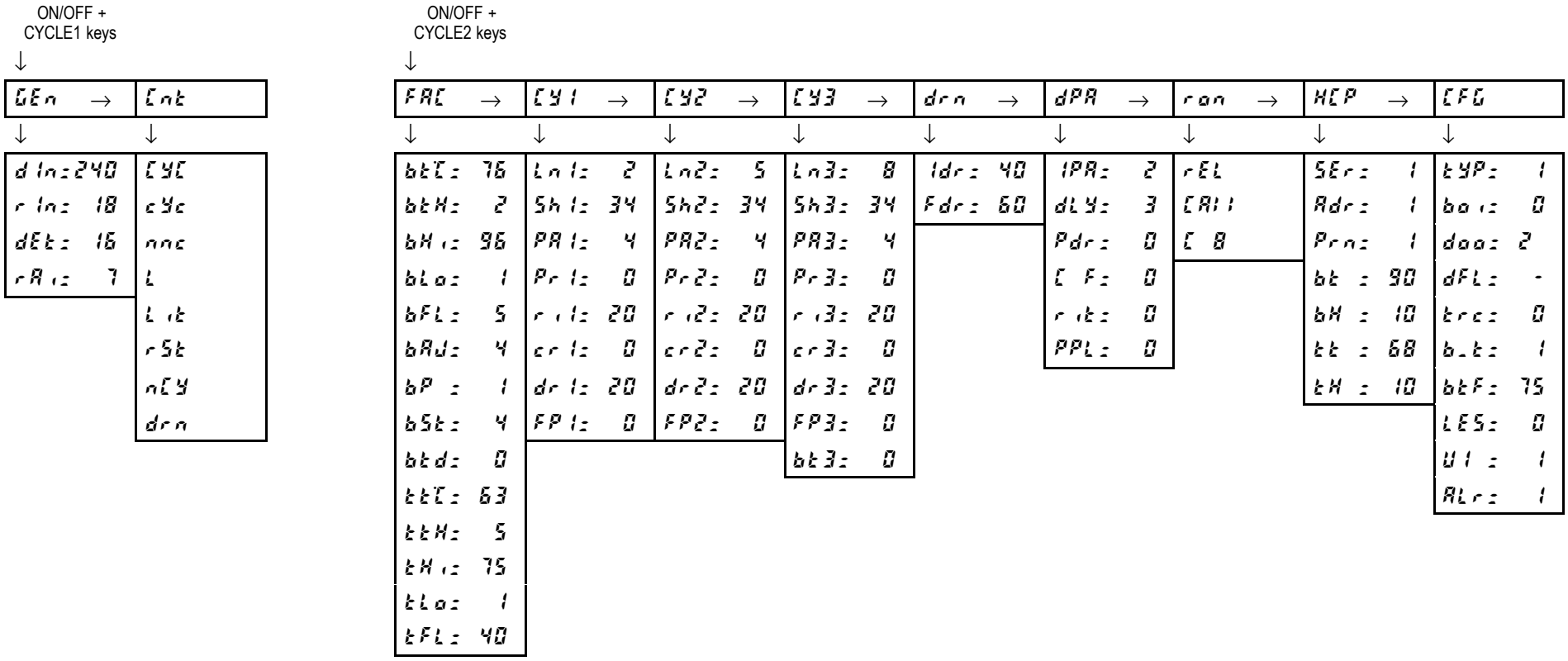
Default 2 - POT WASHER -



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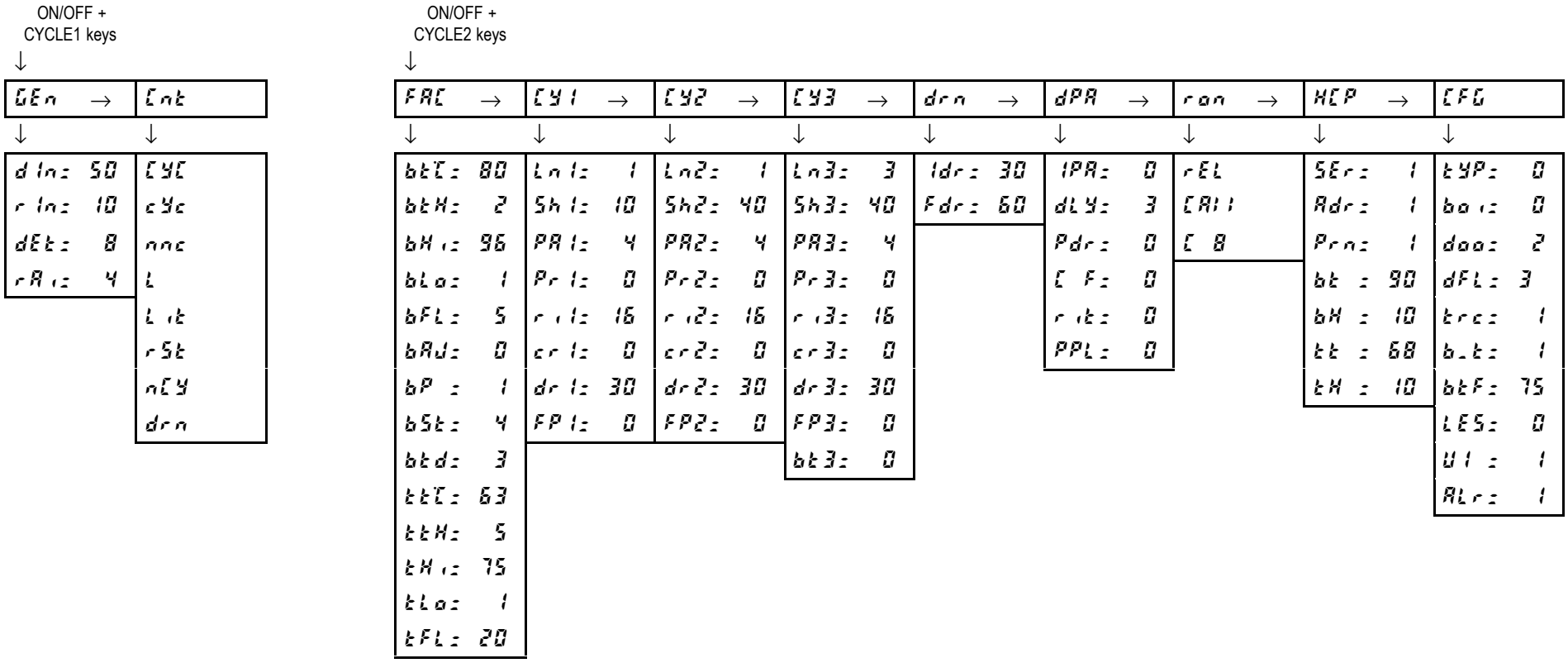
Default 3 - UNDERCOUNTER -



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11. ALARM MESSAGES

A Alarms that stop the dishwasher

A 1	Want of water	
	- Is the tap opened ?	

B Alarms that don't stop the dishwasher

b 1	Drain not efficient	
	- Has the siphonspillway been extracted ? - Drainpipe obstructed. - Drain pump rotor blocked.	
b 2	Overflow alarm	
	- Drain obstructed. - Load electric valve blocked. (E1 - LOAD_EV) - Load electric valve relay welded. (RL8 - LOAD_EV)	

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C Alarms that stop the functioning and suggest to call the service

C 1	Boiler temperature rise too fast	
	- The boiler may be empty. Boiler level sensor not efficient.	
C 2	Boiler temperature too high	
	- Boiler relay welded/melted (see RL2,RL3,RL4). - Boiler level sensor not efficient.	
C 3	Tank temperature too high	
	- Tank relay welded/melted (RL5 - TUB_HEAT). - Rinse water too hot.	
C 4	Tank temperature sensor out of order	
	- Sensor broken or disconnected (NT1).	
C 5	Tank temperature sensor out of order	
	- Sensor short-circuited (NT1).	
C 6	Boiler temperature sensor out of order	
	- Sensor broken or disconnected (NT2).	
C 7	Boiler temperature sensor out of order	
	- Sensor short-circuited (NT2).	
C 8	During rinse phase boiler doesn't empty	
	- Rinse pump not efficient. - Rinse arms obstructed. - Boiler level sensor out of order.	
C 9	Automatic hood out of order	
	- Hood blocked, motor overload. - End switch out of order.	

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D Alarms that don't stop the functioning, but suggest to call the service

E 1	Communication error	
	- Check connection between MB and UI.	
E 2	Tank temperature low	
	- Tank heater not efficient.	
E 3	Boiler temperature low	
	- Boiler heater/heaters not efficient.	

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